

Teflon® PTFE DISP 33

Polytetrafluoroethylene

DuPont Fluoropolymers

Message:

DuPont™ Teflon® PTFE DISP 33 is a milky white aqueous PTFE dispersion stabilized with a non-ionic surfactant. DISP 33 is typically used to coat woven glass cloth and has been especially formulated to provide void-free coatings with enhanced surface smoothness, adhesion, gloss and weldability. When properly processed, the PTFE resin in DISP 33 exhibits the superior properties typical of the fluoropolymer resin: retention of properties after service at 260 °C (500 °F), and useful properties at -240 °C (-400 °F).

DISP 33 aqueous dispersion provides:

enhanced
surface
smoothness,
adhesion,
gloss and weldability
inertness

to
nearly
all
industrial chemicals

and
solvents
stability
at
high
temperatures

excellent
dielectric
properties
lowest
coefficient

of
friction
of
any solid
material
excellent
weatherability

non-stick
characteristics

Typical Applications

Coated
woven
fiber-glass
fabric
used
in architectural, high-performance industrial, food processing and electronics applications

Impregnated
packing
made
from
braided
fibers for
severe chemical and thermal service

Cast
film
for
capacitor
dielectrics

or chemical
barriers
Surface
coatings
for
metallic
or
other high-temperature substrates
Teflon ® PTFE DISP 33 meets the requirements of ASTM D 4441-04, type II, grade 6, class A.

General Information			
Features	Food Contact Acceptable		
	Good Adhesion		
	Good Chemical Resistance		
	Good Weather Resistance		
	Low Friction		
	Medium Gloss		
	Non-Stick		
	Solvent Resistant		
Uses	Cast Film		
	Coating Applications		
	Electrical/Electronic Applications		
	Fabric Coatings		
	Industrial Applications		
	Non-specific Food Applications		
	Wovens Coatings		
Agency Ratings	EU 10/2011		
	FDA 21 CFR 177.1550		
Appearance	White		
Forms	Dispersion		
Processing Method	Cast Film		
	Dip Coating		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
-- 1	2.21	g/cm ³	ISO 12086, ASTM D4895
-- 2	1.52	g/cm ³	ISO 8962, ASTM D4441
Average Particle Size	220	nm	Internal Method
pH			
--	10.0		ASTM E70
--	10.0		ISO 1148

Solids Content - % PTFE by weight			
--	61	%	ASTM D4441
--	61	%	ISO 12086
Brookfield Viscosity			
25°C	25	mPa·s	ISO 2555
25°C	25	mPa·s	ASTM D2196
Surfactant Content - based on PTFE solids			
--	6.5	%	ISO 8962
--	6.5	%	ASTM D4441
NOTE			
1.	of Sintered Resin		
2.	at 60% solids		

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